

**To:** Deltoral, Miguel[deltoral.miguel@epa.gov]  
**Cc:** Poy, Thomas[poy.thomas@epa.gov]; Porter, Andrea[porters.andrea@epa.gov]; Bair, Rita[bair.rita@epa.gov]  
**From:** Bosscher, Valerie  
**Sent:** Thur 1/26/2017 9:08:29 PM  
**Subject:** East Chicago - CRL versus STAT (duplicate results)  
Tables and Graphs for Letters (sites with CRLdup).xlsx

Hi Miguel,

In answer to your question, here is a quick summary of the duplicate Lead results from CRL, compared to the STAT results for the same samples:

- Most samples with detectable lead above the reporting limit are within the +/- 20% analytical precision acceptable per the method. (over two-thirds of samples are below the RL or within 20%)
- The other samples (more than 20% different) are generally relatively low levels of lead, so the difference is small (~1-2 ppb or less) – for example 5.3 ppb (STAT) versus 3.83 ppb (CRL).
- CRL generally reported the lower of the two results.

Additional details are attached. Note that in the attachment, CRL data (highlighted yellow) is final, and in certain cases we only had final lead (highlighted orange) and the remaining data is still preliminary. The green rows (calculated difference in ppb; relative percent difference) are for internal analysis only and wouldn't be included in resident transmittals or online data.

Just FYI, here is the text to be added to the letters/memos that have these duplicate samples:

- As part of U.S. EPA's review of the results, the MM/DD/YYYY samples were analyzed a second time by a separate laboratory; these results are presented in the row labeled "Duplicate". You may notice slight differences between the numbers reported by the two different laboratories; these slight differences are common when water samples are analyzed by different instruments.

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

Ground Water & Drinking Water Branch

Ph 312-886-6731

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77 W. Jackson Blvd. (WG-15J)

Chicago, IL 60604

**From:** Bosscher, Valerie

**Sent:** Monday, January 23, 2017 10:43 AM

**To:** Bair, Rita <bair.rita@epa.gov>

**Cc:** Poy, Thomas <poy.thomas@epa.gov>; Porter, Andrea <porter.andrea@epa.gov>; Deltoral, Miguel <deltoral.miguel@epa.gov>

**Subject:** East Chicago next steps discussion

**Importance:** High

Hi All,

Regarding next steps for EC data/letters:

- FULL Final data – We currently have 3 sites that we can send complete final data packages with final pre- and post-excavation (they were sent preliminary data last week). I will work with Tim Drexler to send updated letters as additional final data comes in.

- o **Proposed language to add to the beginning of the memo:**

**U.S. EPA has now received final analytical results for drinking water samples collected at**

**your home as part of the 2016 Sequential Sampling Pilot Study. This memorandum includes all final results collected at your home and replaces the preliminary results that were sent to you on MM/DD/YYYY.**

- Final Lead-only data – We have received validated results for Lead for the remaining STAT data packages. Tim Drexler indicated that SRS plans to provide all the Full Final data for all jobs by the end of this week.

- o Based on talking with Tom and Andrea this morning, I put together the attached example memo for transmitting only the final lead data (where prelim was sent last week).

- o

- o The sooner we have a final template, the better if we are going to send out memos to these affected sites. We will also need to get the language translated for Spanish-speaking residents.

- Lead CRL duplicate results - See the light green tabs in the attached spreadsheet, yellow-highlighted rows are CRL Lead data and the relative percent difference between the two Lead results. CRL Lead data was received for 6 homes. For the most part, the results are within the expected +/- 20% analytical precision of the method (or within +/- 1 ppb for low results). The relative percent difference is included in a highlighted row for internal review (that row would be removed before sending the results to the resident).

- o Based on talking with Tom this morning, we will prepare the memo consistent with the above, to transmit these CRL results.

- o **Do we need additional language in the final memo to discuss these duplicate analyses?**

Thanks,

Val

Valerie Bosscher, P.E.

Environmental Engineer

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**From:** Bair, Rita

**Sent:** Friday, January 20, 2017 4:54 PM

**To:** Bosscher, Valerie <[bosscher.valerie@epa.gov](mailto:bosscher.valerie@epa.gov)>

**Cc:** Poy, Thomas <[poy.thomas@epa.gov](mailto:poy.thomas@epa.gov)>; Porter, Andrea <[porter.andrea@epa.gov](mailto:porter.andrea@epa.gov)>

**Subject:** RE: 16100351 Final Lead Results

I agree, let's discuss on Monday with Tom.

**From:** Bosscher, Valerie

**Sent:** Friday, January 20, 2017 4:33 PM

**To:** Bair, Rita <[bair.rita@epa.gov](mailto:bair.rita@epa.gov)>

**Cc:** Poy, Thomas <[poy.thomas@epa.gov](mailto:poy.thomas@epa.gov)>; Porter, Andrea <[porter.andrea@epa.gov](mailto:porter.andrea@epa.gov)>

**Subject:** FW: 16100351 Final Lead Results

Hi Rita,

I do not see a benefit of sending "final" letters if only Lead data will be finalized by Monday (see email from Tim Drexler below). It is good that we got the prelim letters out today.

We can finalize and resend letters as the data comes in, but it sounds like that will be ongoing next week.

Thanks,

Val

**From:** Drexler, Timothy  
**Sent:** Friday, January 20, 2017 4:31 PM  
**To:** Bosscher, Valerie <[bosscher.valerie@epa.gov](mailto:bosscher.valerie@epa.gov)>  
**Subject:** RE: 16100351 Final Lead Results

Hi Val: All lead results by tomorrow. All metals by the end of next week.

-Tim

**From:** Bosscher, Valerie  
**Sent:** Friday, January 20, 2017 4:23 PM  
**To:** Drexler, Timothy <[drexler.timothy@epa.gov](mailto:drexler.timothy@epa.gov)>  
**Subject:** RE: 16100351 Final Lead Results

Do they plan to finalize all metals by Monday?

**From:** Drexler, Timothy  
**Sent:** Friday, January 20, 2017 3:56 PM  
**To:** Bosscher, Valerie <[bosscher.valerie@epa.gov](mailto:bosscher.valerie@epa.gov)>  
**Subject:** FW: 16100351 Final Lead Results

Hi Val: Does Rich's note below match what you have received so far?

-Tim

**From:** Rich Baldino [<mailto:RBaldino@srsllc.com>]  
**Sent:** Friday, January 20, 2017 3:23 PM  
**To:** Drexler, Timothy <[drexler.timothy@epa.gov](mailto:drexler.timothy@epa.gov)>

**Subject:** RE: 16100351 Final Lead Results

You should have 28 of 32 data packages complete today (the majority for lead only). I will send the remaining five to you and the rest of the team tomorrow.

**Richard Baldino**

**(312) 220-7171 x2223 office**

**(312) 914-0325 cell**

**From:** Drexler, Timothy [<mailto:drexler.timothy@epa.gov>]  
**Sent:** Friday, January 20, 2017 3:20 PM  
**To:** Rich Baldino <[RBaldino@srsllc.com](mailto:RBaldino@srsllc.com)>  
**Subject:** RE: 16100351 Final Lead Results

Thanks, Rich. What is your status now, with respect to final validation of remaining samples?

-Tim

**From:** Rich Baldino [<mailto:RBaldino@srsllc.com>]  
**Sent:** Friday, January 20, 2017 3:12 PM  
**To:** Drexler, Timothy <[drexler.timothy@epa.gov](mailto:drexler.timothy@epa.gov)>; Alcamo, Thomas <[alcamo.thomas@epa.gov](mailto:alcamo.thomas@epa.gov)>; Maraldo, Dean <[Maraldo.Dean@epa.gov](mailto:Maraldo.Dean@epa.gov)>; Bosscher, Valerie <[bosscher.valerie@epa.gov](mailto:bosscher.valerie@epa.gov)>  
**Subject:** 16100351 Final Lead Results

Tim:

Please find attached the final lead results for STAT SDG 16100351. The full preliminary EDD

has also been sent to Tetra tech for Upload.

Please let me know if you have any questions or comments.

**Richard Baldino**

**Quality Assurance Manager/Project Manager**

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